

## PATENT COOPERATION TREATY

PCT

Isenbruck   Bösl   Hörschier   Vichmann   Huhn, Patentanwälte Postfach 860880 D-81636 München	B1	
	B2	
22. Dez. 2004	B3	
	Sskr	
Vorfrist: VV:	04.06.05 PCT22	He ✓

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference G62276PC	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/008739	International filing date (day/month/year) 04/08/2004	(Earliest) Priority Date (day/month/year) 04/08/2003
Applicant MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER ...		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

GENETICALLY ENCODED BIOINDICATORS OF CALCIUM-IONS ✓

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/008739

**Box No. I**      **Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)**

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ in written format
- ☒ in computer readable form
- c. time of filing/furnishing
- ☒ contained in the international application as filed
- ☒ filed together with the international application in computer readable form
- ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008739

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/47 C07K14/435

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, BIOSIS, EMBASE, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 238 982 A (RIKEN) 11 September 2002 (2002-09-11)  page 3, line 30 - line 50 page 5, line 7 - line 14 page 7, line 6 page 7, line 54 - line 55 page 8, line 51 - line 58 page 9, line 30 - line 34 page 10, line 19 - line 29 page 11, line 10 - line 11; figure 1	1,2, 4-11, 13-26
Y	----- -/--	3,12

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

9 December 2004

Date of mailing of the international search report

21/12/2004

Name and mailing address of the ISA

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Sprinks, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008739

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MIYAWAKI A ET AL: "Dynamic and quantitative Ca <sup>2+</sup> measurements using improved cameleons." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 2 MAR 1999, vol. 96, no. 5, 2 March 1999 (1999-03-02), pages 2135-2140, XP002204911 ISSN: 0027-8424 cited in the application the whole document figure 1 -----	3,12
A	DATABASE UniProt 'Online! 1 February 1996 (1996-02-01), XP002309312 retrieved from EBI Database accession no. P47947 cited in the application abstract -----	1-26

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008739

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1238982	A	11-09-2002	JP 2002253261 A	10-09-2002
			EP 1238982 A1	11-09-2002
			US 2003004306 A1	02-01-2003